

0900700-070601

GAATTCCGGGTGGGTAGGTCTGGGCAGGGTAGGACAGGCCTAAGAGAGAGGCGGACAGACCTCC  
TTTGGAAGCAGCCACTTCTGGTCCCCATCCCTGGAGCGATCGAGCGCAGGATCTGCTGTCCCAT  
GGGACAGCAGATCTCTCTTCCCAGTGCACAGCTTCTCCTCTGCCTGTTTTCCCTGCTTCCAGTG  
CTCCAGGTGGCCCAACCAGGCCAGGCACCCAGGACCAGCCCCTGTGGACACTTTTGGAGCAGT  
ACTGCCACAGGACCACAATTGGGAATTTTTCAGGTCCCTACACCTACTGCAACACGACCTTGGA  
CCAGATCGGGACCTGCTGGCCACAGAGCGCACCCGGAGCCCTAGTAGAGAGACCGTGCCCCGAG  
TACTTCAATGGCATCAAGTACAACACGACCCGGAATGCCTACAGAGAGTGCTTGGAGAACGGGA  
CCTGGGCCTCAAGGGTCAACTACTCACACTGCGAACCCTTTTGGATGACAAGCAGAGAAAGTA  
TGACCTGCATTACCGAATCGCCCTCATTTGTCAACTACCTGGGTCACTGTGTTTCCGTGGTGGCC  
CTGGTGGCCGCTTTTCTGCTTTTCTTAGTGCTGCGGAGTATCCGCTGCCTGAGGAATGTGATCC  
ACTGGAACCTCATCACCACCTTCATTCTGAGAAACATCGCGTGGTTTCTGCTGCAACTCATCGA  
CCACGAAGTGCACGAGGGCAATGAGGTCTGGTGGCGCTGCATCACCACCATTCTCAACTATTTT  
GTGGTCACCAACTTCTTCTGGATGTTTTGTGGAGGGCTGCTACCTGCACACGGCCATTGTCATGA  
CGTACTCCACAGAGCACCTGCGCAAGTGGCTTTTCTCTTCATTGGATGGTGCATTCCCTGCCC  
TATCATCATCGCCTGGGCAGTTGGCAAACCTCTACTATGAGAATGAGCAGTGCTGGTTTGGCAAG  
GAAGCTGGTGATTTGGTGGACTACATCTACCAGGGCCCCGTCATGCTTGTGCTGTTGATCAATT  
TTGTATTTCTGTTTAAACATCGTCAGGATCCTGATGACGAAGTTACGAGCATCCACCACGTCCGA  
GACAATCCAATACAGGAAGGCAGTGAAGGCCACGCTGGTTCCTCCTCCCCCTGTTGGGCATCACC  
TACATGCTCTTCTTTGTCAATCCTGGCGAGGACGACCTGTCCCAGATTGTGTTTCATCTACTTCA  
ACTCTTTCCTGCAGTCCTTCCAGGGTTTCTTTGTGTCCGTTTTCTACTGCTTCTTCAATGGAGA  
GGTGCGCGCGGCCCTGAGAAAGCGGTGGCACTCGGGGCAGGACCACCACGCCCTCCGGGTGCTT  
GTGCGCCGGGCCATGTCCATCCCTACGTCGCCCACCAGGATCAGCTTCCACAGCATCAAGCAGA  
CAGCTGCTGTGTGACCCCTCTGTCACCGTCTGCCCAGGAGTCCACCCTGAGGCAGCTTCTCCAT  
CCTTTACAGCCTTCCCCCTGGGTCTCCTTGCTACCCTGACCCACAGGTACAAGGTACAGGAGAA  
GGGAGGAGAACGAACACTCCC (SEQ ID NO:1)

FIGURE 1

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

GAATTCCGGGTGGGTAGGTCTGGGCAGGGTAGGACAGGCCCTAAGAGAGAGGCCGGACAGAC  
CTCCTTTTGAAGCAGCCACTTCTGGTCCCCATCCCTGGAGCGATCGAGCGCAGGATCTGC  
TGTCCCATGGGACAGCAGATCTCTCTTCCCAGTGCACAGCTTCTCCTCTGCCTGTTTTCC  
CTGCTTCCAGTGCTCCAGGTGGCCCAACCAGGCCAGGCACCCCAGGACCAGCCCCTGTGG  
ACACTTTTGGAGCAGTACTGCCACAGGACCACAATTGGGAATTTTTTCAGGTCCCTACACC  
TACTGCAACACGACCTTGGACCAGATCGGGACCTGCTGGCCACAGAGCGCACCCGGAGCC  
CTAGTAGAGAGACCGTGCCCCGAGTACTTCAATGGCATCAAGTACAACACGACCC [GGAA  
TGCCCTACAGAGAGTGCCTGGA] GAACGGGACCTGGGCCCTCAAGGGTCAACTACTCACACT  
GCGAACCCTATTTTGGATGACAAGCAGAGAAAAGTATGACCTGCATTACCGAATCGCCCTCA  
TTGTCAACTACCTGGGTCACTGTGTTTCCGTGGTGGCCCTGGTG [GCCGCTTTCCTGCTT  
TTCCTAGTGCTGCG] GAGTATCCGCTGCCTGAGGAATGTGATCCACTGGAACCTCATCAC  
CACCTTCATTCTGAGAAACATCGCGTGGTTTCCTGCTGCAACTCATCGACCACGAAGTGCA  
CGAGGGCAATGAGGTCTGGTGCCGCTGCATCACCACCATCTTCAACTATTTTGTGGTCAC  
CAACTTCTTCTGGATGTTTGTGGAGGGCTGCTACCTGCACACGGCCATTGTGATGACGTA  
CTCCACAGAGCACCTGCGCAAGTGGCTTTTCTCTTTCATTGGATGGTGCATTCCCTGCCC  
TATCATCATCGCCTGGGCAGTTGGCAAACCTCTACTATGAGAATGAGCAGTGCTGGTTTGG  
CAAGGAAGCTGGTGATTTGGTGGACTACATCTACCAGGGCCCCGTCATGCTTGTGCTGTT  
GATCAATTTTGTATTTCTGTTTAAACATCGTCAGGATCCTGATGACGAAGTTACGAGCATC  
CACCACGTCCGAGACAATCCAATACAGGAAGGCAGTGAAGGCCACGCTGGTCCCTCCTCCC  
CCTGTTGGGCATCACCTACATGCTCTTCTTTGTCAATCCTGGCGAGGACGACCTGTCCCA  
GATTGTGTTTCTACTTCAACTCTTTCTGTCAGTCCCTCCAGGGTTTCTTTGTGTCCGT  
TTTCTACTGCTTCTTCAATGGAGAGGTGCGCGCGGCCCTGAGAAAGCGGTGGCACTCGGG  
GCAGGACCACCACGCCCTCCGGGTGCCTGTGCGCCGGGCCATGTCCATCCCTACGTCGCC  
CACCAGGATCAGCTTCCACAGCATCAAGCAGACAGCTGCTGTGTGACCCTCTGTACCCGT  
CTGCCCCGCGAGTCCACCACTGAGGCAGCTTCTCCATCCTTTACAGCCTTCCCCTGGGTCC  
TCCTTGCTACCCTGACCCACAGGTACAAGGTACAGGAGAAGGGAGGAGAACGAACACTCC  
C

FIGURE 2A

# Gene Sequence Structure

\*

441 bp

Sequence Deleted

582 bp

Size of full-length  
cDNA: 1557 bp

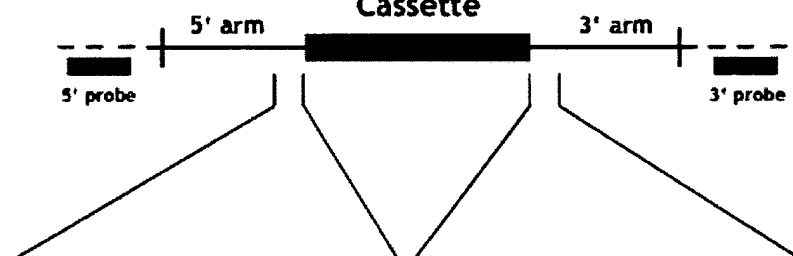


## Targeting Vector\* (genomic sequence)

Construct Number: 3050

LacZ-Neo

Cassette



Arm Length:

5': 3.1 kb

3': 2.5 kb

109020" 00200555  
5900700.070601

————— Targeting Vector  
- - - - - Endogenous Locus

\* Not drawn to scale

5' >AGCCCTATGTGTAATTTTCAT  
ATAAATGACTCATATTAGCTTTCA  
GATATGCATTGTGTTTTTCAGGTCT  
GGGAGAACTAAGGAGTGTGGACCT  
TATCCTGCAGGTACTAGGGAGCCA  
GGGAGGGCTTTTGAGGCGGGAGGG  
CGTCTGACTCTCAGTGGTTGGCA  
TC'TTC'TCTAGGGAATGCCTACAGA  
GAGTGCCTGGA<3'  
(SEQ ID NO:2)

5' >GCCGCTTTCCTGCTTTTCCTA  
GTGCTGCGGTGAGTCCACCTCCAC  
CCTGCTTCCTCCTTGCTTTGCCT  
CTCCCAGACATTGTCTCTTCCATT  
CTGGGGCCCCGGGAACAGTAGCCA  
GAAGTGGGTTTAAGTCAGACCCCC  
AGGGCCATGACCACCAGCCTGCCT  
GAAGGGTAGAGAGCAAGCCCAGCT  
GGGACCACCAG<3'  
(SEQ ID NO:3)

FIGURE 2B